Chettinad College of Engineering & Technology, Karur

Department of Electronics and Communication Engineering

News Report

Programme Name : **FOUNDATION IN GREEN AND AI SKILLS PROGRAM**

Faculty Incharge : **Dr.S.Kokila, Associate Professor/ECE**

Date : **21.07.2025 to 25.07.2025**

Venue : **C-Block Seminar Hall**

Number of Participants : **48**

Description:

Chettinad College of Engineering and Technology organized a five-day "Foundation in Green and AI Skills Program", offered by Edunet Foundation in collaboration with Shell, aimed at equipping second-year engineering students with cutting-edge skills at the intersection of sustainability and artificial intelligence. The program empowered students with practical knowledge and hands-on exposure to address real-world environmental challenges using AI technologies. The workshop began with an insightful introduction to sustainability, carbon emission issues, and the relevance of Green Skills and Green AI in today's world. Participants were guided through system setup processes, including the installation of Anaconda and various IDEs, ensuring everyone was ready for the technical sessions ahead. The second day focused on Python programming basics, where participants learned about variables, data types, conditional statements, loops, functions, and basic file operations. A hands-on session allowed learners to write and execute simple Python programs, laying a strong foundation for upcoming modules. This day introduced key Python libraries such as NumPy, Pandas, Matplotlib, and Seaborn, along with essential statistical concepts. Participants engaged in data manipulation, analysis, and visualization exercises to understand real-world data patterns. Core machine learning concepts were covered, including supervised and unsupervised learning techniques. The day included hands-on implementation of linear regression and principal component analysis (PCA), providing learners with practical model-building experience. The final day explored the fundamentals of deep learning, including Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), and an introduction to Transformer models. The workshop concluded with a glimpse into Generative AI (GenAI) and its applications in sustainable and ethical AI

development. The program successfully combined theoretical knowledge with practical exercises, fostering an environment of active learning and innovation among the 2nd-year students of, ECE department. The engaging sessions delivered by Mr. Kailas E.K. and Mr. Jeeva enabled students to build confidence in leveraging AI for creating sustainable and impactful solutions for society.

PARTICIPANTS DETAILS:

- **II Year ECE**

Events Photos: